



CASE STUDY

READYCHAIN® FOR WOODWORKING MACHINES

APPLICATION OVERVIEW:
ReadyChain® pre-harnessed cable carriers with Chainflex® cables for woodworking machines

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Save on installation time

95% of this company's woodworking machines are equipped with igus® cable carriers. To further optimize production costs, the company decided a year ago to use pre-assembled ReadyChain® cable carrier systems - including Chainflex® cables - in a new type of machine tools series.

Individual solutions through collaborative project management

The company's goal is to manufacture top-quality machines which function smoothly. To optimize costs, the company increasingly relies on system suppliers. Together with igus®, a solution was planned for three different CNC machines to supply the X and Y axis with energy and signals. ReadyChain® is a pre-assembled system with Chainflex® cables laid in and all connectors labeled. igus® was able to offer a guaranteed delivery time.



There is little space available and the cables are extremely stressed due to complex movements. Feed rates are at 328 ft/min and the travel length at 13 to 20 ft. Drilling speed is 24,000 revolutions. The cable carriers had to be quick to install and maintenance-free. In addition, it had to be able to withstand chips and dust. For this reason, the cable carriers are supplied as completely enclosed energy tubes, which are completely immune to flying debris and woodchips.

Halved installation times



To supply the two axles of the stationary machines, the choice fell on energy tubes. Thus a requirement of the American market could be met. The chip-repellant outer contour and encapsulated or enclosed stop dogs provide a comprehensive protection to the cables and hoses. By the well-proportioned inner and outer dimensions, they can be installed in minimum space. The around 23 Chainflex® cables – servo- and data cables, control and fiber-optic cables – are designed for international application and conform to the UL requirements.

Far more than 150 machines have already been equipped with the system solution. The processing times have been almost halved.

More on applied products here

[ReadyChain®](#)

[Overview of Chainflex® cables](#)

Further interesting applications from extremely diverse areas can be found here.

[Energy Chain® cable carrier application examples](#)